

Claims

1. Foil-type switching element comprising
a first carrier foil and a second carrier foil arranged at a certain distance
from each other by means of a spacer, said spacer comprising at least one
recess defining an active area of the switching element, and
5 at least two electrodes arranged in the active area of the switching element
between said first and second carrier foils in such a way that, in response to
a pressure acting on the active area of the switching element, the first and
second carrier foils are pressed together against the reaction force of the
elastic carrier foils and an electrical contact is established between the at
10 least two electrodes,
characterized in that at least one of said carrier foils comprises a multi-
layered configuration with at least two layers of different materials.
2. Foil-type switching element according to claim 1, wherein each of said first
and said second carrier foils comprises a multi-layered configuration with at
15 least two layers of different materials.
3. Foil-type switching element according to claim 2, wherein the number of
layers in the multi-layered configurations of said first and second carrier foils
are different.
4. Foil-type switching element according to claim 2 or 3, wherein the layers of
20 the multi-layered configuration of said first carrier foil are made of materials
which are different from the materials of the layers of the multi-layered con-
figuration of said second carrier foil.
5. Foil-type switching element according to any one of claims 1 to 4, wherein
said layers of said multi-layered carrier foil comprise materials having differ-
25 ent mechanical properties.

6. Foil-type switching element according to claim 5, wherein said layers of said multi-layered carrier foil comprise materials having a different modulus of elasticity.
- 5 7. Foil-type switching element according to any one of claims 1 to 6, wherein one of said layers of said multi-layered carrier foil comprises a dielectric resin layer.
8. Foil-type switching element according to any one of claims 1 to 7, wherein one of said layers of said multi-layered carrier foil comprises a metal foil.
9. Foil-type switching element according to any one of claims 1 to 8, wherein
10 the multi-layered carrier foil comprises two layers of different metals.
10. Foil-type switching element according to any one of claims 1 to 9, wherein one of said layers of said multi-layered carrier foil comprises a material with a high chemical resistance.
11. Foil-type switching element according to any one of claims 1 to 10, wherein
15 one of said layers of said multi-layered carrier foil comprises a flame-retarding material.
12. Foil-type switching element according to any one of claims 1 to 11, wherein the different layers of said multi-layered carrier foil have a different thickness.
- 20 13. Foil-type switching element according to any one of claims 1 to 12, wherein layers of said multi-layered carrier foil are extruded one onto the other.
14. Foil-type switching element according to any one of claims 1 to 13, wherein layers of said multi-layered carrier foil are laminated together.
15. Foil-type switching element according to any one of claims 1 to 14, wherein
25 layers of said multi-layered carrier foil are deposited on top of one another.